

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936231

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936231
REPORT IS A COMBINATION OF REPORTS P933437 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

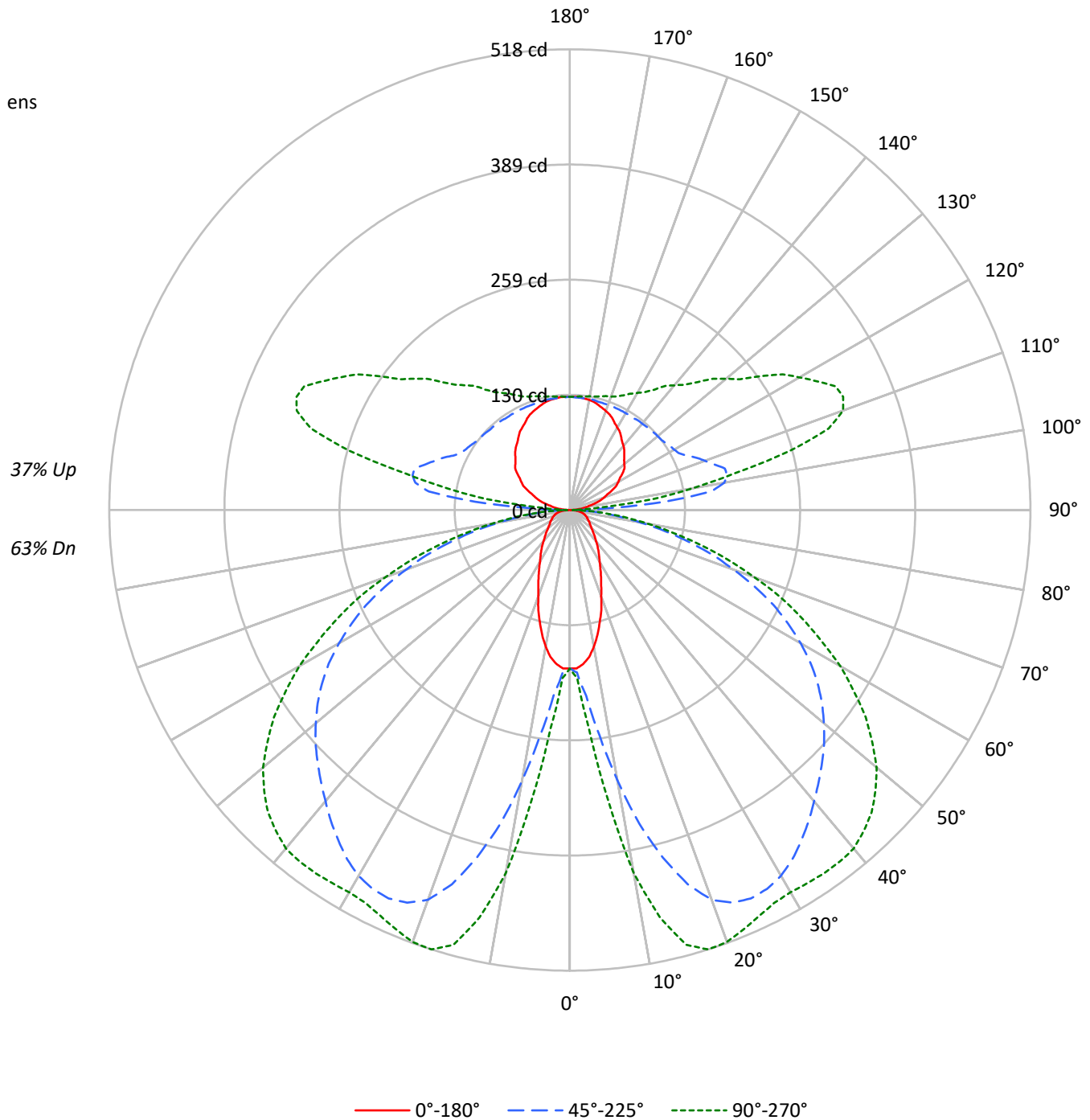
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2205.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 22
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P936231
CATALOG NUMBER: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P936231

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	29
5	68	56	47	41	64	52	45	39	46	40	35	40	35	31	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1654	1654	1654
5°	1613	1910	2222
10°	1463	2782	3684
15°	1241	3631	4450
20°	1010	4205	4534
25°	841	4398	4443
30°	708	4422	4434
35°	625	4345	4549
40°	545	4247	4667
45°	492	4172	4686
50°	450	4105	4608
55°	430	4010	4403
60°	438	3828	4081
65°	454	3555	3638
70°	480	3093	3073
75°	528	2515	2399
80°	562	1739	1616
85°	472	918	827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.1	1.0
10°-20°	102.2	4.6
20°-30°	178.7	8.1
30°-40°	230.0	10.4
40°-50°	256.9	11.7
50°-60°	246.1	11.2
60°-70°	195.0	8.8
70°-80°	114.7	5.2
80°-90°	32.3	1.5
90°-100°	62.1	2.8
100°-110°	163.4	7.4
110°-120°	169.4	7.7
120°-130°	135.8	6.2
130°-140°	106.6	4.8
140°-150°	81.8	3.7
150°-160°	58.9	2.7
160°-170°	36.0	1.6
170°-180°	12.2	0.6
0°-30°	303.9	13.8
0°-40°	533.9	24.2
0°-60°	1037.0	47.0
0°-90°	1379.0	62.5
90°-120°	394.9	17.9
90°-150°	719.1	32.6
90°-180°	826.0	37.5
0°-180°	2205.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	174	186	210	237	246	16
15°	130	240	404	490	506	36
25°	83	272	482	503	504	38
35°	56	260	454	480	498	35
45°	38	207	401	460	480	30
55°	28	132	340	395	406	25
65°	22	70	253	284	288	22
75°	16	43	139	152	153	17
85°	6	13	34	38	38	6
90°	1	2	6	3	3	1
95°	8	32	107	55	38	9
105°	30	45	181	274	256	31
115°	52	64	145	288	329	52
125°	73	82	132	222	262	65
135°	87	95	127	180	204	67
145°	100	107	126	153	165	63
155°	114	117	126	138	142	52
165°	123	124	126	131	132	35
175°	127	127	127	128	128	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2	178.2
2.5°	178.2	178.2	179.4	179.9	181.1	181.7	182.8	183.9	187.4	187.9	189.1
5°	173.6	176.0	183.4	186.2	194.2	205.2	209.7	217.2	232.7	237.2	240.1
7.5°	166.7	171.9	190.2	194.8	214.9	243.5	255.6	271.6	296.2	308.3	318.0
10°	155.9	166.7	199.4	210.3	242.9	286.5	308.9	331.2	368.5	385.0	391.4
12.5°	143.8	161.6	209.2	224.0	271.0	334.6	361.6	386.2	428.6	451.0	454.4
15°	130.1	154.2	218.3	240.1	300.8	374.7	404.5	434.9	474.5	490.4	494.5
17.5°	118.0	148.4	226.9	249.8	323.7	410.8	441.2	466.4	498.5	509.4	512.2
20°	103.2	139.2	232.7	262.5	347.8	437.2	466.4	485.9	507.7	514.5	515.7
22.5°	92.2	129.5	236.1	267.0	363.9	453.2	477.9	493.3	508.2	510.5	511.1
25°	83.1	118.6	235.5	272.2	377.6	462.9	481.9	493.3	502.0	503.1	503.1
27.5°	74.5	106.6	233.2	273.3	387.9	465.2	480.2	488.2	492.2	494.5	494.5
30°	67.0	95.1	227.5	271.0	392.5	462.9	475.0	479.0	483.0	486.5	488.2
32.5°	61.3	84.2	218.9	266.4	393.1	457.2	465.8	468.1	473.9	481.9	484.7
35°	56.1	73.4	209.2	260.2	389.7	448.1	453.8	456.1	467.5	479.6	483.6
37.5°	51.0	65.3	196.5	249.2	384.4	437.2	441.2	445.3	462.9	477.3	481.9
40°	45.9	58.4	181.7	237.2	376.5	424.0	427.5	433.7	457.2	473.9	478.5
42.5°	41.9	52.7	165.6	224.6	366.2	409.1	414.3	423.5	450.4	468.1	473.3
45°	38.4	47.0	148.4	207.4	352.9	393.7	401.1	413.7	442.4	459.5	464.1
47.5°	34.9	43.0	130.7	189.7	338.7	378.2	387.9	402.2	431.5	448.1	452.1
50°	32.1	38.9	112.9	170.7	323.2	361.6	373.0	387.9	417.8	433.2	438.3
52.5°	29.8	35.5	96.3	151.9	305.4	344.4	357.5	373.0	401.1	416.0	419.5
55°	27.5	32.6	81.9	131.8	287.1	326.0	340.4	355.2	382.7	395.4	397.7
57.5°	26.4	30.4	69.9	112.9	267.6	305.4	321.4	335.2	361.0	370.7	373.0
60°	24.6	28.6	60.7	96.9	246.4	286.0	299.7	313.5	335.2	343.2	345.0
62.5°	22.9	27.5	53.9	81.4	224.6	263.0	276.7	289.4	307.7	313.5	315.7
65°	21.8	26.4	48.7	69.9	202.3	238.9	252.7	263.6	278.4	284.2	285.4
67.5°	20.7	25.2	44.7	60.1	179.9	214.9	225.1	235.5	246.9	252.7	253.2
70°	18.9	24.1	41.3	53.3	157.0	187.4	195.9	206.9	216.0	218.9	220.6
72.5°	17.8	22.4	38.9	48.2	133.5	161.0	169.0	175.4	183.4	186.2	186.2
75°	16.1	20.1	36.6	43.0	109.4	131.8	138.6	144.9	151.3	152.4	150.7
77.5°	14.3	17.8	31.5	36.1	85.4	104.3	110.0	113.4	118.6	119.7	120.3
80°	12.0	15.5	24.6	28.1	61.9	76.8	80.8	83.6	88.2	88.2	89.4
82.5°	9.1	12.0	17.8	20.1	41.9	52.7	56.1	57.9	60.7	60.7	60.7
85°	5.7	7.4	11.4	13.2	25.2	32.1	34.4	34.9	37.2	37.8	37.8
87.5°	2.9	4.0	7.4	8.0	13.2	16.7	16.7	17.8	17.8	17.2	16.7
90°	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4	3.2	3.2
92.5°	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1	16.2	15.5
95°	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4	55.2	53.2
97.5°	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3	127.4	123.6
100°	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1	178.9	174.4
102.5°	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9	222.8	219.0
105°	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0	274.2	272.1
107.5°	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3	300.9	301.4
110°	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1	307.7	309.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6	303.4	306.6
115°	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6	288.5	293.1
117.5°	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8	268.1	273.2
120°	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8	254.4	259.2
122.5°	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9	240.5	245.3
125°	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1	222.3	226.8
127.5°	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8	207.7	211.5
130°	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4	198.5	201.9
132.5°	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9	190.6	193.7
135°	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1	179.5	182.1
137.5°	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6	171.3	173.5
140°	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0	164.7	166.7
142.5°	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0	160.1	161.9
145°	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0	153.1	154.5
147.5°	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2	147.3	148.4
150°	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9	144.0	144.9
152.5°	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1	141.4	142.0
155°	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1	138.2	138.6
157.5°	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2	135.4	135.7
160°	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3	134.0	134.2
162.5°	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4	132.7	132.9
165°	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1	130.8	130.9
167.5°	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8	129.9	130.0
170°	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8	129.9	129.9
172.5°	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4	129.2	129.1
175°	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8	128.3	128.3
177.5°	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7	128.1	128.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	178.2	178.2
2.5°	190.2	189.1
5°	244.7	245.8
7.5°	329.4	328.9
10°	409.7	414.8
12.5°	468.1	469.3
15°	503.7	506.0
17.5°	517.4	518.0
20°	518.0	516.8
22.5°	511.7	510.5
25°	504.3	503.7
27.5°	497.4	498.0
30°	494.5	496.2
32.5°	494.5	497.4
35°	495.7	498.5
37.5°	495.1	498.5
40°	492.7	496.8
42.5°	486.5	489.3
45°	476.7	480.2
47.5°	464.1	466.4
50°	448.1	450.4
52.5°	428.0	428.6
55°	404.0	406.2
57.5°	378.2	378.7
60°	349.5	351.2
62.5°	319.2	319.2
65°	287.1	288.2
67.5°	253.8	256.7
70°	220.0	220.6
72.5°	186.8	186.8
75°	152.4	153.0
77.5°	119.7	119.7
80°	88.8	89.4
82.5°	61.3	62.4
85°	38.4	38.4
87.5°	17.8	16.1
90°	3.2	3.2
92.5°	13.0	10.4
95°	45.4	37.6
97.5°	108.7	93.9
100°	156.7	139.0
102.5°	203.8	188.6
105°	264.0	255.8
107.5°	303.4	305.4
110°	318.3	326.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	319.7	332.8
115°	311.2	329.4
117.5°	293.2	313.4
120°	278.8	298.3
122.5°	264.6	283.9
125°	244.5	262.3
127.5°	226.4	241.4
130°	215.8	229.6
132.5°	206.1	218.5
135°	192.9	203.5
137.5°	182.2	191.0
140°	174.8	183.0
142.5°	168.9	175.9
145°	159.8	165.1
147.5°	152.8	157.2
150°	148.4	152.0
152.5°	144.7	147.4
155°	140.4	142.2
157.5°	137.0	138.3
160°	135.0	135.6
162.5°	133.6	134.3
165°	131.7	132.4
167.5°	130.3	130.6
170°	129.9	129.9
172.5°	128.9	128.6
175°	128.3	128.3
177.5°	127.8	127.4
180°	127.4	127.4



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	3.80	4.84	4.64	5.70	6.78	16.94	17.98	17.78	18.84	19.92
	3H	4.52	5.46	5.37	6.33	7.43	18.78	19.71	19.62	20.59	21.69
	4H	4.83	5.72	5.69	6.59	7.71	19.42	20.31	20.28	21.19	22.30
	6H	5.09	5.91	5.97	6.79	7.92	19.85	20.67	20.72	21.55	22.68
	8H	5.17	5.94	6.05	6.85	7.98	19.97	20.75	20.85	21.65	22.78
	12H	5.19	5.93	6.08	6.83	7.98	20.04	20.78	20.93	21.68	22.83
4H	2H	11.02	11.90	11.88	12.78	13.89	17.24	18.12	18.11	19.00	20.12
	3H	12.60	13.34	13.48	14.25	15.38	19.29	20.03	20.16	20.94	22.07
	4H	12.71	13.38	13.60	14.29	15.44	20.05	20.73	20.94	21.63	22.79
	6H	12.73	13.31	13.63	14.24	15.40	20.59	21.18	21.49	22.11	23.26
	8H	12.71	13.26	13.62	14.18	15.35	20.75	21.30	21.66	22.22	23.39
	12H	12.67	13.17	13.60	14.11	15.29	20.84	21.34	21.77	22.28	23.46
8H	4H	14.15	14.70	15.06	15.63	16.80	20.13	20.68	21.04	21.60	22.77
	6H	14.41	14.86	15.34	15.83	17.00	20.75	21.21	21.69	22.17	23.34
	8H	14.43	14.83	15.37	15.79	16.98	20.97	21.37	21.91	22.33	23.52
	12H	14.40	14.76	15.35	15.71	16.95	21.11	21.47	22.06	22.42	23.65
12H	4H	14.30	14.80	15.23	15.74	16.92	20.09	20.59	21.02	21.53	22.71
	6H	14.66	15.07	15.61	16.02	17.21	20.74	21.14	21.68	22.10	23.29
	8H	14.74	15.10	15.69	16.05	17.28	20.97	21.33	21.92	22.28	23.51